

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	98664	(JFET or MOSFET)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:46
L2	104310	(JFET or MOSFET or MESFET)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:46
L3	556214	(underneath or below or bottom or under) near8 (trench opening)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:47
L4	391616	(second or another) near4 (gate electrode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:47
L5	2740	2 and 3 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:48
L6	69	Lovoltech.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:48
L7	117200	Yu.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:48
L8	16206	(trench near8 gate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:48

## EAST Search History

L9	423	L8 same buffer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:48
L10	277	L9 and ((@ad<"20020704") or (@rlad<"20020704"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 10:41
L11	2505	((438/135) or (438/142) or (438/186) or (438/197) or (438/167)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 09:53
L12	84	5 and 11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:53
L13	2	("4893160"   "5349224").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/08 09:55
L14	0	("6995052").URPN.	USPAT	OR	ON	2006/11/08 09:56
L15	8	10 and 11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 10:42
L16	4359	(dual or double or two or array) same (gate near8 trench)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 10:43
L17	1629	2 and 16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 10:43

## EAST Search History

L18	206	17 and buffer and implant\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 10:43
L19	68	18 and spacer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 10:43
L20	44	("20020074585"   "20030151101"   "20030178646"   "20040065896"   "3381188"   "4223328"   "4404575"   "4419586"   "4506282"   "4519024"   "4523111"   "4566172"   "4645957"   "4700461"   "4750023"   "4769685"   "4853561"   "5038266"   "5396085"   "5488236"   "5719409"   "5808328"   "5831288"   "5861643"   "5945699"   "6011703"   "6028778"   "6064580"   "6069809"   "6084792"   "6090650"   "6104172"   "6180519"   "6236257"   "6251716"   "6307223"   "6404157"   "6439678"   "6551865"   "6696706"   "6777722"   "6812079"   "6921932").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/08 11:40
L21	5	("5396085"   "5945699"   "6251716"   "6307223"   "6696706").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/08 11:44
L22	30	("3381188"   "4329773"   "4404575"   "4419586"   "4506282"   "4519024"   "4523111"   "4645957"   "4700461"   "4750023"   "4769685"   "4853561"   "5038266"   "5396085"   "5910665"   "5945699"   "6011703"   "6028778"   "6064580"   "6069809"   "6084792"   "6090650"   "6104172"   "6180519"   "6236257"   "6251716"   "6307223"   "6404157"   "6439678").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/08 11:45

## EAST Search History

L23	1	("6812079").URPN.	USPAT	OR	ON	2006/11/08 11:46
L24	4	("5917203"   "6057558"   "6117735"   "6380565").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/08 11:47
L25	6	("6551865").URPN.	USPAT	OR	ON	2006/11/08 11:48
L26	37	("4219835"   "4571815"   "4587712"   "4608584"   "4642666"   "4757028"   "4762806"   "4860084"   "4865685"   "4893160"   "4897710"   "4908682"   "4912063"   "4912064"   "4952991"   "4959699"   "4965647"   "4972240"   "4974059"   "4975750"   "4981551"   "4994413"   "5072266"   "5168331"   "5170231"   "5177572"   "5225032"   "5230768"   "5233215"   "5247192"   "5264713"   "5270554"   "5279701"   "5323040"   "5396085"   "5471075"   "5506421").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/08 11:49
L27	61	("5719409").URPN.	USPAT	OR	ON	2006/11/08 11:54
L28	0	("6956256").URPN.	USPAT	OR	ON	2006/11/08 11:55

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L29	90	2 and (buffer near8 (second near gate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 13:06
L30	229	(second near gate) near8 (narrow\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 13:06
L32	2250	(bottom near4 trench) near8 gate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 13:06
L33	3	30 and 32	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 13:07
L34	4437	(second near (gate or electrode)) same buffer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 13:08
L35	199	34 same (trench or opening)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 13:12
L36	2499	(dop\$4 or implant\$4) near8 (trench near4 bottom)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 13:13
L37	852	36 and (FET or (field near effect near transistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 13:13

## EAST Search History

L38	614	37 and ((@ad<"20020704") or (@rlad<"20020704"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 14:02
L39	11063	gate with (below beneath or underneath or under) with (trench recess opening)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 13:49
L40	1691	2 and 39	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 13:49
L41	305	40 and buffer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 13:58
L42	116	(implant\$4 or doping) near8 (buffer) same spacer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 13:58
L43	21	42 and 2 and (trench recess)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 14:00
L44	538	(second near gate) with (trench opening recess) with (bottom or underneath or under or below)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 14:01
L45	296	44 and ((@ad<"20020704") or (@rlad<"20020704"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 14:59

## EAST Search History

L46	229	(second near gate) near8 (narrow\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 14:31
L47	1	46 near8 (trench) .	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 14:33
L48	2437	(implant\$4 or doping) near8 ((bottom or underneath or under or below) near4 (trench or opening))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 14:58
L49	266	48 and ((another or second) near gate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 14:59
L50	152	49 and (((@ad<"20020704") or (@rlad<"20020704"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 15:14
L51	7288	(buffer near4 oxide)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 15:06
L52	818	51 near8 gate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 15:09
L53	34466	Micron.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 15:09

## EAST Search History

L54	137	53 and (gate near trench)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 15:13
L55	28	54 and buffer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 15:09
L56	69	54 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 15:13
L57	59	56 and ((@ad<"20020704") or (@rlad<"20020704"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 16:12
L58	1784	((257/134) or (257/205) or (257/287) or (257/504) or (257/E. 29.314) or (257/135) or (257/256) or (257/264) or (257/270) or (257/278) or (257/504)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 15:22
L59	471	58 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 15:22
L60	7691	(implant\$4 or dop\$4) near8 (bottom or underneath or under or beneath) same (opening recess trench)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 15:23
L61	32	59 and 60	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 15:23



## EAST Search History

L62	16	("20020056884"   "20020175351"   "20030151092"   "20030218920"   "20050001268"   "4166223"   "4559694"   "5493134"   "6180966"   "6323518"   "6574131"   "6710403"   "6713813"   "6930354"   "6930355"   "6984864").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/08 15:30
L63	0	("7129544").URPN.	USPAT	OR	ON	2006/11/08 15:31
L64	19	("4791462"   "4835586"   "4872044"   "4903189"   "5168331"   "5175598"   "5304821"   "5323040"   "5350934"   "5471075"   "5488236"   "5661322"   "5702962"   "5856692"   "5909039"   "5917216"   "5969378"   "6091107"   "6194741").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/08 16:08
L65	984	second near8 ((doped or implant\$4) near region) near8 (trench opening recess)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 16:09
L66	26	65 and JFET	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 16:10
L67	16	66 and ((@ad<"20020704") or (@rlad<"20020704"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 16:20
L68	525	438/for.422.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 16:15
L69	382	438/for.423.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 16:15

## EAST Search History

L70	603	438/for.424.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 16:15
L71	1509	68 or 69 or 70	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 16:15
L72	278	71 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 16:19
L73	12249	(trench near4 gate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 16:19
L74	12964	(bottom near8 (dop\$4 or implant\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 16:19
L75	1626	73 and 74	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 16:20
L76	862	75 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 16:20
L77	576	76 and ((@ad<"20020704") or (@rlad<"20020704"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 16:46

## EAST Search History

L78	2	("5488236").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 16:48
L79	2	("6777722").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 16:48
L80	35	("3381188"   "4404575"   "4419586"   "4506282"   "4519024"   "4523111"   "4645957"   "4700461"   "4750023"   "4769685"   "4835586"   "4845051"   "4853561"   "5038266"   "5396085"   "5471075"   "5488236"   "5861643"   "5929481"   "5945699"   "6011703"   "6028778"   "6064580"   "6069809"   "6084792"   "6090650"   "6104172"   "6180519"   "6236257"   "6251716"   "6307223"   "6404157"   "6439678"   "6566201").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/08 16:49